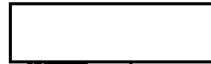


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22 May 1963

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**MEMORANDUM FOR THE RECORD**

**SUBJECT: Purcell Panel**

1. On 21 May [redacted] of Eastman Kodak briefed Doctors Purcell, Land, Baker and Garvin on Eastman's presentation which investigated the tradeoffs of photographic aerial reconnaissance systems to determine the required conditions necessary to attain a specified performance level. [redacted]

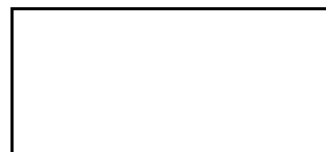
2. Dr. Land summarized the presentation as a realistic and practicable analysis from a background of generalizations which provided a good jumping off point although not necessarily valid in all aspects.

3. During the course of the presentation the following recommendations were set forth:



b. Dr. Land commented that it should definitely be a consideration of the Panel to recommend the number of lines per square millimeter for film, such as 200 lines, and also to suggest areas where progress could be achieved if the traditional habits of evolutionary progress in film making were broken. He also suggested that definite steps be taken to improve the present exploitation equipment, and that progress in the film-making industry should not be impeded by the lack of inability of present exploitation equipment to process it.

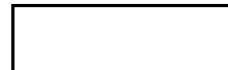
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c. As a casual comment without further reference or discussion, [redacted] stated that there would be certain advantages of flying the capsule sideways, however, the military does not agree with such an exercise.

d. Considerable discussion was given to the feasibility as well as the desirability of sensitizing film at the immediate time of exposure. In this regard, Dr. Baker cited the work of Dr. Constantine Saigo of Rowland Institute in Chicago, who has done tremendous work in this field, and has developed an image intensifier tube through a series of three-stage diode/fiber optics. According to Dr. Baker, Saigo has also done some work with a 50,000 volt electronic gun. [redacted]

e. Eastman Kodak stated that they could never achieve a common denominator with NPIC for citing resolution. On the one hand, Eastman refers to a bar chart and NPIC utilizes resolution in square feet. They could not determine, however, what exactly the term square foot represented, i.e. the resolution of an object 1 sq. ft. or the actual identification of an object 1 sq. ft. It might be useful for the Panel if a common set of numbers could be used.



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4. Following the Eastman briefing, the undersigned met with [redacted] of Itek at their Lexington plant to explain briefly the purpose of the Purcell Panel and to explain the role which Itek will play in briefing the Panel, i.e. presentation of the CORONA M/J, LANTHED, 1', M<sub>2</sub>, 240 inch and any other proposal regarding future photographic satellite systems. The undersigned explained that in view of time limitations, it may be necessary for a Government representative to summarize the current Itek systems to the Panel and that the Itek representatives would be called upon to present the M<sub>2</sub>, 240 inch and other future proposals. It was agreed to have [redacted] come to Washington on 28 May, when Itek will go through a dry run of their Panel briefing, and at that time we may know a little more regarding the agenda and duration of time which can be allowed each contractor.

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**JOHN W. McMAHON**  
Associate Secretary  
Purcell Panel

**Dist:**

- 1 - PS/OSA
- 2 - DD/R
- 3 - Mr. Klefer, OSA
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- 6 - RB/OSA

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C/PS/OSA:JDM:M: [redacted] (22 May 63)

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